- Application No.: 10/603,814

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## **AMENDMENTS TO THE CLAIMS**

This listing of claims will replace all prior versions, and listings of claims in the application:

1. (Currently Amended) A bisphenol compound composition having excellent thermal stability, comprising: characterized in that it comprises

a bisphenol compound; and

a pyridine compound in an amount of from 1 ppt to 10 ppm calculated as pyridine; wherein said bisphenol compound composition is crystallized.

- 2. (Currently Amended) The bisphenol compound composition having excellent thermal stability according to claim 1, wherein the pyridine compound is a mercaptoalkylpyridine.
- 3. (Currently Amended) The bisphenol compound composition having excellent thermal stability according to claim 1, wherein it comprises a comprising the pyridine compound in an amount of 10 ppt or more calculated as pyridine.
- 4. (Currently Amended) The bisphenol compound composition having excellent thermal stability according to claim 1, wherein it comprises a comprising the pyridine compound in an amount of 1 ppm or less calculated as pyridine.
- 5. (Currently Amended) A method for improving thermal stability of a bisphenol compound, comprising:

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characterized in that adding from 1 ppt to 10 ppm of a pyridine compound is added to the a purified bisphenol compound to a concentration of from 1 ppt to 10 ppm.

- 6. (New) The bisphenol compound composition according to claim 1, wherein said bisphenol compound is bisphenol A.
- 7. (New) The bisphenol compound composition according to claim 1, wherein said bisphenol compound is produced by reacting a phenol compound with a ketone compound in the presence of an acid catalyst.
- 8. (New) The bisphenol compound composition according to claim 1, wherein said bisphenol compound is produced produced by reacting a phenol having a substituent group on the ring with a ketone.
- 9. (New) The bisphenol compound composition according to claim 1, wherein said pyridine compound is pyridine or a substituted pyridine having a substituent group on a carbon atom of the ring.
- 10. (New) The bisphenol compound composition according to claim 1, wherein said pyridine compound is selected from the group consisting of alkylpyridines, alkenylpyridines, mercaptoalkylpyridines and mixtures thereof.
- 11. (New) The bisphenol compound composition according to claim 1, wherein said pyridine compound is selected from the group consisting of 2-mercaptomethylpyridine, 3-mercaptomethylpyridine, 4-mercaptomethylpyridine, 2-(2-mercaptoethyl)pyridine, 3-(2-mercaptoethyl)pyridine, 3-

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mercaptoethyl)pyridine, 4-(2-mercaptoethyl)pyridine, 2-(3-mercaptopropyl)pyridine, 3-(3-mercaptopropyl)pyridine, 4-(3-mercaptopropyl)pyridine, 2-(4-mercaptobutyl)pyridine, 3-(4-mercaptobutyl)pyridine, 4-(4-mercaptobutyl)pyridine and mixtures thereof.

- 12. (New) The bisphenol compound composition according to claim 1, wherein said pyridine compound is selected from the group consisting of 4-vinylpyridine, 2-vinylpyridine, 4-methylpyridine, 2-methylpyridine, 4-ethylpyridine, 2-ethylpyridine, 2,4-dimethylpyridine, and mixtures thereof.
- 13. (New) The bisphenol compound composition according to claim 1, wherein said pyridine compound is selected from the group consisting of 2:1 condensation products of a mercapto group of a mercaptoalkylpyridine with a ketone compound;

wherein said mercaptoalkylpyridine is selected from the group consisting of 2-mercaptomethylpyridine, 3-mercaptomethylpyridine, 4-mercaptomethylpyridine, 2-(2-mercaptoethyl)pyridine, 3-(2-mercaptoethyl)pyridine, 4-(2-mercaptoethyl)pyridine, 2-(3-mercaptopropyl)pyridine, 3-(3-mercaptopropyl)pyridine, 4-(3-mercaptopropyl)pyridine, 2-(4-mercaptobutyl)pyridine, 3-(4-mercaptobutyl)pyridine, 4-(4-mercaptobutyl)pyridine and mixtures thereof.

- 14. (New) The method according to claim 5, wherein the pyridine compound is a mercaptoalkylpyridine.
- 15. (New) The method according to claim 5, comprising adding the pyridine compound in an amount of 10 ppt or more calculated as pyridine.

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- 16. (New) The method according to claim 5, comprising adding the pyridine compound in an amount of 1 ppm or less calculated as pyridine.
- 17. (New) The method according to claim 5, wherein said bisphenol compound is bisphenol A.
- 18. (New) The method according to claim 5, wherein said bisphenol compound is produced by reacting a phenol compound with a ketone compound in the presence of an acid catalyst.
- 19. (New) The method according to claim 5, wherein said bisphenol compound is produced produced by reacting a phenol having a substituent group on the ring with a ketone.
- 20. (New) The method according to claim 5, wherein said pyridine compound is pyridine or a substituted pyridine having a substituent group on a carbon atom of the ring.
- 21. (New) The method according to claim 5, wherein said pyridine compound is selected from the group consisting of alkylpyridines, alkenylpyridines, mercaptoalkylpyridines and mixtures thereof.
- 22. (New) The method according to claim 5, wherein said pyridine compound is selected from the group consisting of 2-mercaptomethylpyridine, 3-mercaptomethylpyridine, 4-mercaptomethylpyridine, 2-(2-mercaptoethyl)pyridine, 3-(2-mercaptoethyl)pyridine, 4-(2-mercaptoethyl)pyridine, 2-(3-mercaptopropyl)pyridine, 3-(3-mercaptopropyl)pyridine, 4-(3-mercaptopropyl)pyridine, 4-(3-mercaptopropyl)pyridi

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mercaptopropyl)pyridine, 2-(4-mercaptobutyl)pyridine, 3-(4-mercaptobutyl)pyridine, 4-(4-mercaptobutyl)pyridine and mixtures thereof.

- 23. (New) The method according to claim 5, wherein said pyridine compound is selected from the group consisting of 4-vinylpyridine, 2-vinylpyridine, 4-methylpyridine, 2-methylpyridine, 4-ethylpyridine, 2-ethylpyridine, 2,4-dimethylpyridine, and mixtures thereof.
- 24. (New) The method according to claim 5, wherein said pyridine compound is selected from the group consisting of 2:1 condensation products of a mercapto group of a mercaptoalkylpyridine with a ketone compound;

wherein said mercaptoalkylpyridine is selected from the group consisting of 2-mercaptomethylpyridine, 3-mercaptomethylpyridine, 4-mercaptomethylpyridine, 2-(2-mercaptoethyl)pyridine, 3-(2-mercaptoethyl)pyridine, 4-(2-mercaptoethyl)pyridine, 2-(3-mercaptopropyl)pyridine, 3-(3-mercaptopropyl)pyridine, 4-(3-mercaptopropyl)pyridine, 2-(4-mercaptobutyl)pyridine, 3-(4-mercaptobutyl)pyridine, 4-(4-mercaptobutyl)pyridine and mixtures thereof.

- 25. (New) The bisphenol compound composition according to claim 1, wherein said pyridine compound is 4-vinylpyridine.
- 26. (New) The bisphenol compound composition according to claim 1, wherein said pyridine compound is 4-(2-mercaptoethyl)-pyridine.
- 27. (New) The method according to claim 5, wherein said pyridine compound is 4-vinylpyridine.

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28. (New) The method according to claim 5, wherein said pyridine compound is 4-(2-mercaptoethyl)-pyridine.

29. (New) A bisphenol compound composition having excellent thermal stability, comprising:

a bisphenol compound; and

a pyridine compound in an amount of from 1 ppt to 10 ppm calculated as pyridine; wherein said bisphenol compound is purified by crystallization.

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## BASIS FOR THE AMENDMENT

Claims 1-5 have been amended to better conform to accepted U.S. claim format.

The amendment of Claims 1 and 5 is further supported by Examples 1-4 at page 6 of the specification.

New Claims 6-29 have been added.

New Claims 6 and 17 are supported at page by Examples 1-4.

New Claims 7, 8, 18 and 19 are supported at page 1, 2<sup>nd</sup> full paragraph.

New Claims 9-13 and 20-24 are supported at page 3, first full paragraph and at page 4, first full paragraph.

New Claims 14-16 are supported by Claims 2-4 as originally filed, respectively.

New Claims 25-28 are supported by Examples 1-4 in Table 1 at page 8 of the specification.

New claim 29 is supported by Examples 1-4 at page 6 of the specification.

No new matter is believed to have been added by entry of this amendment. Entry and favorable reconsideration are respectfully requested.

Upon entry of this amendment Claims 1-29 will now be active in this application.